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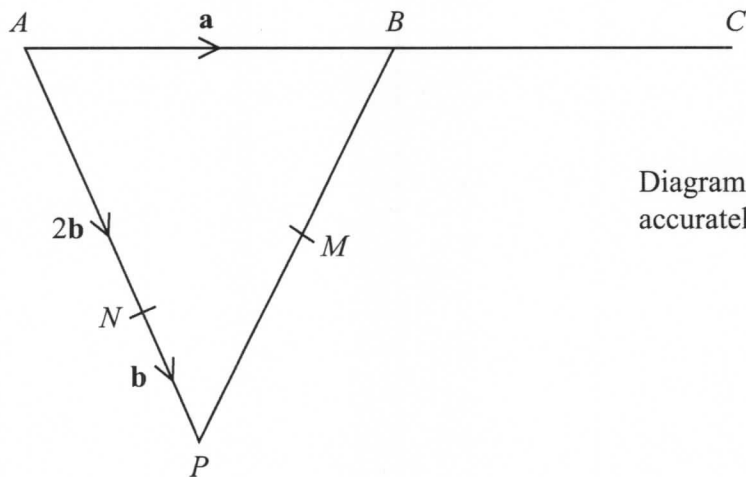


Diagram NOT
accurately drawn

APB is a triangle.
 N is a point on AP .

$$\vec{AB} = \mathbf{a} \quad \vec{AN} = 2\mathbf{b} \quad \vec{NP} = \mathbf{b}$$

(a) Find the vector \vec{PB} , in terms of \mathbf{a} and \mathbf{b} .

(1)

B is the midpoint of AC .
 M is the midpoint of PB .

* (b) Show that NMC is a straight line.

(4)

(Total for Question 28 is 5 marks)

TOTAL FOR PAPER IS 100 MARKS

